

Rabbit Anti-RAB8A/AP Conjugated antibody

SL6176R-AP

Product Name	Anti-RAB8A/AP
Chinese Name	碱性磷酸酶（AP）标记的 ras 癌基因家族 Rab8 蛋白/原癌基因 c MEL 抗体
Alias	MEL; Mel transforming oncogene; Oncogene c mel; Oncogene c-mel; RAB8; RAB8A; RAB8A member RAS oncogene family; RAB8A_HUMAN; Ras associated protein RAB8; Ras related protein Rab 8A; Ras-related protein Rab-8A.
Research Area	Tumour Cell biology Neurobiology Signal transduction
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Chicken,Cow,Sheep) WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	23kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human RAB8A
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: The protein encoded by this gene is a member of the RAS superfamily which are small GTP/GDP-binding proteins with an average size of 200 amino acids. The RAS-related proteins of the RAB/YPT family may play a role in the transport of proteins from the endoplasmic reticulum to the Golgi and the

plasma membrane. This protein shares 97%, 96%, and 51% similarity with the dog RAB8, mouse MEL, and mouse YPT1 proteins, respectively and contains the 4 GTP/GDP-binding sites that are present in all the RAS proteins. The putative effector-binding site of this protein is similar to that of the RAB/YPT proteins. However, this protein contains a C-terminal CAAX motif that is characteristic of many RAS superfamily members but which is not found in YPT1 and the majority of RAB proteins. Although this gene was isolated as a transforming gene from a melanoma cell line, no linkage between MEL and malignant melanoma has been demonstrable. This oncogene is located 800 kb distal to MY09B on chromosome 19p13.1.

Function:

May be involved in vesicular trafficking and neurotransmitter release. Together with RAB11A, RAB3IP, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis. Together with MYO5B and RAB11A participates in epithelial cell polarization.

Subunit:

Interacts with MAP4K2 and SYTL4. Interacts with SGSM1 and SGSM3 (By similarity). Interacts with OPTN. Interacts with RAB3IP. Interacts with MYO5B. Interacts with PIFO. Interacts with BIRC6/bruce. Interacts with OCRL.

Subcellular Location:

Cell membrane; Lipid-anchor; Cytoplasmic side (Potential). Golgi apparatus. Cytoplasm, perinuclear region. Cell projection. Note=Colocalizes with OPTN at the Golgi complex and in vesicular structures close to the plasma membrane. In the GDP-bound form, present in the perinuclear region. Shows a polarized distribution to distal regions of cell protrusions in the GTP-bound form. Colocalizes with PARD3, PRKCI, EXOC5, OCLN, PODXL and RAB11A in apical membrane initiation sites (AMIS) during the generation of apical surface and luminogenesis.

Similarity:

Belongs to the small GTPase superfamily. Rab family.

Database links:

[Entrez Gene: 100125881](#) Cow

[Entrez Gene: 403773](#) Dog

[Entrez Gene: 4218](#) Human

[Entrez Gene: 17274](#) Mouse

[Entrez Gene: 117103](#) Rat

[Omid: 165040](#) Human

[SwissProt: Q5F470](#) Chicken

[SwissProt: A4FV54](#) Cow

[SwissProt: P61007](#) Dog

[SwissProt: P61006](#) Human

[SwissProt: P55258](#) Mouse

[SwissProt: P35280](#) Rat

[Unigene: 642874](#) Human

[Unigene: 709846](#) Human

[Unigene: 162811](#) Mouse

[Unigene: 16064](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.